

Method for Interference Suppression for TDMA- and/or FDMA Transmission

Abstract

- 5 A method for interference suppression for TDMA and/or FDMA transmission, which at least approximately can be described as pulse amplitude modulation, with an arbitrary number of receive antennas. The method comprises filtering of at least one complex-valued received signal $r_i[k]$ of one receive antenna with a filter with complex-valued coefficients $f_i[k]$ for generation of at least one output signal $y_i[k]$,
10 forming at least one projection of at least one output signal $y_i[k]$ onto a vector \mathbf{p}_i which is assigned to this output signal $y_i[k]$, summing of a majority, especially all of the output signals $y_i[k]$ for forming a sum signal $s[k]$, and feeding the sum signal $s[k]$ into a device for detection, especially equalization. A system for interference suppression for TDMA and/or FDMA transmission is also disclosed.

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